



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,357	02/19/2004	Norman Herron	UC0409USNA	4173

23906 7590 01/09/2009  
E I DU PONT DE NEMOURS AND COMPANY  
LEGAL PATENT RECORDS CENTER  
BARLEY MILL PLAZA 25/1122B  
4417 LANCASTER PIKE  
WILMINGTON, DE 19805

EXAMINER
----------

THOMPSON, CAMIE S

ART UNIT	PAPER NUMBER
----------	--------------

1794

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

01/09/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-Legal.PRC@usa.dupont.com

### Office Action Summary

**Application No.**

10/782,357

**Applicant(s)**

HERRON ET AL.

**Examiner**

Camie S. Thompson

**Art Unit**

1794

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on Amendment filed 10/01/08.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 and 13-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 24 is/are allowed.
- 6) ☒ Claim(s) 1-11 and 13-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/08)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_
- Paper No(s)/Mail Date \_\_\_\_\_

**DETAILED ACTION**

1. Applicant's amendment and accompanying remarks filed October 1, 2008 are acknowledged.
2. Examiner acknowledges amended claims 9 and 20.
3. Examiner acknowledges cancelled claim 12.
4. Examiner regrets the early indication of allowable subject matter of claims 1-8, 10-11, 13-14 and 21-25.
5. The rejection of claims 9, 12 and 15-20 under 35 U.S.C. 102(b) as being anticipated by Tokoli et al., U.S. Patent Number 4,665,000 is overcome by applicant's amendment.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

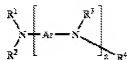
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-8, 20-23 and 25 rejected under 35 U.S.C. 102(a) as being anticipated by WO03/064373, with the translation being relied upon by Richter et al., U.S. Pre Grant Publication 2005/0067951.

The reference discloses triarylamine derivatives uses as a hole transport material in electrographic and electroluminescent devices. The reference discloses that the triarylamine

Art Unit: 1794

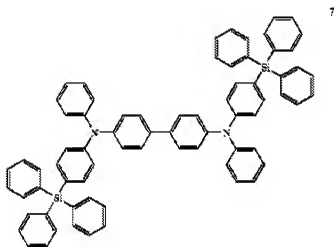


derivatives with the general formula

with Ar being biphenyl;  $R^1$  to  $R^4$

being the same or different being triarylsilyl-aryl, phenyl, naphthyl, anthryl or fluorenyl. The

reference discloses compound 7



. Compound 7 reads on the present

claims when E is  $(SiR^5R^6)$  with  $R^5$  and  $R^6$  both being phenyl;  $R^2$  is hydrogen;  $R^1$  is phenyl and



$R^3$  is represent by the substituted aryl,

8. Claims 9-11, 13-23 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Tokoli et al., U.S. Patent Number 4,665,000.

Tokoli discloses compositions for photoresponsive imaging members or devices with hole transport layers wherein the composition comprises R-X-R<sub>1</sub> with R and R<sub>1</sub> being selected from arylamino, substituted arlamino and diarylamino groups and X is sulfur (see column 4, lines 7-49).

***Allowable Subject Matter***

9. Claim 24 is allowed. Applicant claims process for producing a polymer of instant formulae (I) and (II). The closest prior art, Tokoli et al., U.S. Patent Number 4,665,000 and Richter et al., U.S. Pre Grant Publication 2005/0067951, disclose triarylaminines used in electronic devices. Neither Tokoli nor Richter discloses a process of producing a polymer by reacting two or more of compounds having the general formulae of (I) or (II) in the presence of copper, nickel or palladium catalyst at a temperature of 22 deg C to 150 deg C for 24 to 92 hours to form a first polymer; treating the polymer with an endcapping group and further reacting the capped polymer for 24 to 48 hours.

***Conclusion***

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, D. Lawrence Tarazano, can be reached at (571) 272-1515. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or would like to access the automated information system, call (800) 786-9199 (IN USA OR CANADA) or 571-272-1530.

/Camie S Thompson/

Examiner, Art Unit 1794

/D. Lawrence Tarazano/

Supervisory Patent Examiner, Art Unit 1794

Application/Control Number: 10/782,357

Page 6

Art Unit: 1794